



Washington State Exercise Ideas

The following exercise scenarios were developed in partnership with the 2021 THIRA process, focused on the frequently identified hazards in the State of Washington. They are designed to allow your organization to localize & modify for your own use.

Scenarios by Hazard

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Template Earthquake Scenarios

Core Capabilities: Planning, Public Information & Warning, Operational Coordination, Access Control & Identity Verification, Risk Management for Protection Programs & Activities, Supply Chain Integrity & Security, Community Resilience, Long-Term Vulnerability Reduction, Risk & Disaster Resilience Assessment, Threats & Hazards Identification, Critical Transportation, Environmental Response Health & Safety, Fatality Management Services, Infrastructure Systems, Logistics & Supply Chain Management, Supply Chain Integrity & Security, Mass Care Services, Mass Search & Rescue Operations, On-scene Security-Protection & Law Enforcement, Operational Communications, Public Health-Healthcare & EMS, Situational Assessment, Economic Recovery, Housing, Health & Social Services, Natural & Cultural Resources.

Cascadia Local

A Magnitude M9.0 earthquake occurs on the Cascadia Subduction Zone at 9:41 a.m., PST, on February 6th, causing up to 6 minutes of shaking, and then causing secondary hazards including landslides, liquefaction, localized fires, collapsed buildings, hazmat spills and debris over the first few days. Deep sedimentary basins under *(City Name)* cause amplified shaking leading to the collapse of a high percentage of brick and mortar constructed buildings. Over the next month, there are thousands of aftershocks including at least five greater than Magnitude 7, causes the collapse of the *(Bridge Names)* Bridges, and hindering response and recovery efforts, in addition to the psychosocial impacts on society caused by the reality of constant earthquakes. Neighboring British Columbia, Oregon, and Northern California experience similar impacts.

Cascadia Regional

A Magnitude M9.0 earthquake occurs on the Cascadia Subduction Zone at 9:41 a.m., PST, on February 6th, causing up to 6 minutes of shaking. Secondary hazards include: landslides, liquefaction, localized fires, collapsed buildings, hazmat spills and debris. Deep sedimentary basins under *(Major population centers)* cause amplified shaking leading to the potential collapse of a high percentage of buildings over 10 stories tall. There are more than *(Number)* people living in the tsunami inundation zones on the outer coast. Over the next month, there are thousands of aftershocks including at least five greater than Magnitude 7, causing additional damage and secondary impacts to infrastructure, and hindering response and recovery efforts, in addition to the psychosocial impacts on society caused by the reality of constant earthquakes. Neighboring British Columbia, Oregon, and Northern California experience similar impacts.

Rattlesnake-Wallula Fault

A Magnitude M6.5 earthquake occurs on the Rattlesnake-Wallula Fault at 9:41 p.m., PST, on March 26th, causing up to 5 minutes of shaking, and then causing secondary hazards including landslides along steep slopes, liquefaction, localized fires, collapsed buildings, hazmat spills, damaged roadways, and debris over the first few days. Additionally, damage was sustained at the *(Dam name)* Dam(s) resulting in damage to the spillways preventing the operators from closing the spillway. With the increased snow melt the dam(s) are unable to reduce the flow resulting in a discharge of 160,000 cfps causing downstream flooding on the *(river name)* River. Over the next month, there are thousands of

aftershocks including at least three greater than Magnitude 5, causing damage to the *(Bridge name)* bridge over the *(river name)* River requiring its closure thereby hindering response and recovery efforts.

Mill Creek fault

On a cold morning in early January an earthquake measuring 7.1 magnitude occurs along the full length of the Mill Creek fault, causing up to 5 minutes of shaking, with secondary impacts including landslides along steep slopes, liquefaction in *(Population center names)* areas, localized fires, damaged buildings, damage along the primary north-south transportation route *(route name)*. No damage to the railroad tracks along the *(general location)* of the *(Jurisdiction)* *(more detailed location description)*. The electrical power grid goes down impacting the entire region but starts to come back online for most customers over the next 24-48 hours. Natural gas is shut off during the shaking, but industry officials estimate that they will have the gas lines back in operations once the safety inspections are completed. The inspections are estimated to be completed within 7-10 days. Internet communications goes down impacting some infrastructure systems using telemetry devices to control their systems. Business owners lose point of sale devices and communications with corporate systems for resupply. Initial reports received show no damage to municipal water and sewer systems however, some septic systems failed in those areas experiencing significant liquefaction. Initial damage assessments determined that there were 1 structure was destroyed, 70 received moderate damage, and 451 received slight damage. The hospital in *(city/town)* received only slight damage reducing the number of beds by 25% with estimates to be at 100% within 7 days. The public and private schools in *(cities/ towns)* reported slight damage with a slight impact on school availability for students. *(Main road name)* *(Direction)* of *(city/town)* is temporarily closed until *(agency name)* can inspect the bridges and overpasses. There is strong evidence of liquefaction in the *(cities/ towns)* areas as well as in the area *(Direction)* of the community of *(cities/ towns)* along *(geographic feature)*. There was extensive damage in *(County)* preventing travel to/from *(County)*. This cut off a major resupply route although most resupply comes from the west via the *(cities/ towns)* areas. Several businesses are experiencing limited resupply and are actively searching for other options. The damage assessments estimated 1,240 tons of debris that will need to be addressed. Red Cross shelters are at 75% capacity with no additional needs for sheltering or feeding operations. Over the next two weeks, there are dozens of aftershocks including at least three greater than Magnitude 5. FEMA damage impact modeling estimated \$150 million economic impact to *(County)* as well as over \$15 billion impact to the State.

Wallula fault

At 2:00 pm on a Tuesday afternoon in November a magnitude 6.8 earthquake happens along the Wallula fault. Severe shaking (Modified Mercalli Intensity VIII) is felt in all of the *(City/ town names)*, Very Strong (MMI VII) is felt in *(City/ town names)*, and Strong shaking (MMI VI) is felt in the majority of the rest of the county other than the far *(Directional)* edge. The far *(Directional)* edge of *(County)* as well as *(Counties)* experience Moderate (MMI VI) shaking. Initial estimates are for approximately 750 injured requiring hospital treatment and 50 deaths in *(County)*. All hospitals in *(County(s))* experienced damage and are only at 50% capacity for the first 72 hours. *(County)* hospitals have no bed availability for at least the first 72 hours with only 10 beds available in *(Neighbor County)*. All injuries requiring hospitalization will need to be transported to hospitals in the *(City/ town name)*. Estimates show at least 1,700 displaced households and a need for short-term sheltering for about 1,200 individuals. Windshield damage estimates show low to moderate damage on *(Main roads)* with 177

bridges/overpasses needing inspection. The need exists for 25 bridge and overpass inspectors to conduct safety inspections. Alternate transportation route planning will need to be conducted. Electrical service is out to 1,743 homes and businesses, mostly within the (City) but also in (City/ town names). Natural gas services have been completely shut down until inspections can be completed. Municipal and Community Wastewater services have been impacted primarily in (City/ towns) with an estimated 1,150 without sewer services. Municipal and Community drinking water systems experienced some damage mainly in older distribution lines that are not up to current codes. An estimated 1,322 people are without drinking water. Critical and Essential Facilities are operating on backup generators if they have them. Damage assessments show over 1,353 structures damaged and 53 structures that are totally collapsed in the County, mostly in the (Cities). There is a need for about 75 building inspectors. Debris management estimates are for 111,000 tons of Brick and Wood and 371,000 tons of concrete and steel materials requiring debris management services. Most of the damage is in the immediate area of the (City) but some damages occurred throughout most of the rest of the county.

Mt. St Helens

It has been an unusually cold winter and there is a deep snowpack in the Cascade Mountains. In early March, the NWS reports a warming trend over the next few days and an atmospheric river to bring massive amounts of rainfall to the areas. On March 10th, temperatures rise dramatically, and the rain has been falling for days, quickly melting winter snowpack and flooding rivers. Water in the Swift No. 1, Yale and Merwin reservoirs being to rise to concerning levels. All three reservoirs are now at full pool level, and the Swift, Yale, and Merwin Dams are all spilling massive amounts of water. On March 12th, at 0700 a shallow M5.1 earthquake occurs near Mount. Saint Helens approximately 20 miles NE of the Lewis River projects. (Company Name) employees working in the area of Swift, Yale, and Merwin Dams all feel the earthquake as well as residents in (Cities/ Towns). Social media is flooded with messages about the earthquake within minutes. The earthquake causes liquefaction of the soils at the Swift and Yale Saddle Dams. Inspection of Yale Saddle Dam reveals a large dip in the crest of the dam, some cracking, and water seeping from the settled area. As pool levels in the Swift reservoir rise faster than spill flow, water crests the Swift Dam, causing an even quicker rise of water in the Yale Reservoir and water is observed flowing through the dip in the Yale Saddle Dam. At 1300, The HCC receives a Yale Saddle Dam Breach High Level Alarm (measures high flow at Frasier Creek). Then, 20 minutes after the alarm, the Yale Saddle Dam suffers a full breach and failure. This discharges about 24,000 cfs from Yale reservoir overland, into Frasier Creek drainage area, and into the Lewis River. The deluge of upstream water is too much for the Merwin Dam to hold back and fails. In (City/town), (#) miles downstream from the Merwin Dam, panic has set in. News of the earthquake and Dam failures upstream have been circulating on social media for hours and alert and warning has been activated. Traffic clogs the (City/town) streets with panicked residents trying to evacuate.

Chelan Fault Zone

A Magnitude M9.0 earthquake occurs on the Chelan Fault Zone at 9:41 a.m., PST, on February 6th, causing up to 6 minutes of shaking. A gasoline tanker truck that loses control crashing into a Warehouse on (Streets) in (City), the site contains Diphenylamine (DPA) (CAS# 122-39-4) & Thiabendazole (TBZ) (CAS# 148-79-8). Within minutes the tanker truck has caught fire. Across the region there are reports of landslides, liquefaction, collapsed buildings, damaged infrastructure and debris. Significant bridge damage makes transportation over the (river) impassable in (City(s)). (Road) in a 50mile radius around

(City) has experienced significant damage. Over the next week, there are at least three aftershocks including at least five greater than Magnitude 6, causing additional damage and secondary impacts to infrastructure, and hindering response and recovery efforts, in addition to the psychosocial impacts on society caused by the repeated earthquakes.

South Whidbey Island Fault

A Magnitude M7.4 earthquake occurs on the South Whidbey Island Fault Zone at 9:41 a.m., PST, on February 6th, causing up to 6 minutes of shaking. A train carrying tankers full of toxic chemicals is derailed in (City) at (intersection). A 17,290-gallon tank car carrying 90 tons of pressurized liquid Chlorine ruptures, releasing a deadly plume of Chlorine gas. A 10 knot NE wind carries the growing plume toward the already damaged (name) Junior High School only about (distance) away. In all, the plume covers an area from the rail line west to (Street) and North and South from (Streets), enveloping the school and the neighborhoods surrounding it. Across the region there are reports of landslides, liquefaction, collapsed buildings, damaged infrastructure and debris. Significant bridge damage impedes transportation over the many water ways surrounding (Cities). Over the next week, there are at least three aftershocks including at least five greater than Magnitude 6, causing additional damage and secondary impacts to infrastructure, hindering response and recovery efforts, in addition to the psychosocial impacts on society caused by the repeated earthquakes.

Earthquake with Tsunami

A Magnitude M9.0 earthquake occurs on the Cascadia Subduction Zone at 9:41 a.m., PST, on February 6th, causing up to 6 minutes of shaking. Following the shaking, Tsunami waves up to approximately 60 feet, first arrive on the coast within 15-20 minutes, and continue for 12-24 hours or more, causing inundation and strong currents along the outer coast and on coastlines throughout the Salish Sea and Puget Sound. Secondary hazards include: landslides, liquefaction, localized fires, collapsed buildings, hazmat spills and debris. Deep sedimentary basins under (city/ county) cause amplified shaking leading to the potential collapse of a high percentage of buildings over 10 stories tall. There are more than (X#) people living in the tsunami inundation zones on the outer coast. Over the next month, there are thousands of aftershocks including at least five greater than Magnitude 7, causing additional damage and secondary impacts to infrastructure, and hindering response and recovery efforts, in addition to the psychosocial impacts on society caused by the reality of constant earthquakes. Neighboring British Columbia, Oregon, and Northern California experience similar impacts.

Template Volcano

Mt. Baker

In late August, earthquakes on Mount Baker begin to register at seismic stations around the area, and there are reports of a rotten egg odor by campers at Baker Lake according to the Cascades Volcano Observatory (CVO). After a gas flight conducted by the CVO, CO₂ and H₂S gasses are found to be up noticeably from last measurements, reversing the downward trend of past decades. Alert Levels are raised by the CVO to Advisory/Yellow at 7:00 p.m. on August 31st. A few days later, the University of

Washington and Western Washington University begin picking up an increasing number of ice quakes and small magnitude events on the volcano, prompting a CVO advance team and USGS to put in place additional monitoring equipment. The equipment confirms that the earthquakes are really picking up. On September 6th, the first steam and ash emission on Mount Baker occurs at 3:20 p.m. and lasts for 15 minutes producing an ash cloud up to 25,000 feet. The cloud is carried to the east and southeast by a west-southwest wind and after ballistics knock out a new sensor at Sherman Crater, the CVO raises the alert level to Watch/Orange at 3:35 p.m. On September 7th, two additional smaller explosions result in layer of ash less than an inch thick on the upper dam, and a trace coating of ash on Highway 20 near Concrete over the next few days. After a few days of relative quiet, the CVO reports that a small lake has formed in the vent area. Snow around Sherman Crater has darkened with ash and small lahars on the upper flanks have occurred. Gas measurements show increased SO₂, but H₂S is no longer being detected. Over the next week, several explosions occur, increasingly growing in length of time and producing higher ash plumes. Earthquakes are growing stronger and are running together with 10 to 20-minute episodes of tremor. On September 12th, a call from help is initiated by 2 hikers about ¼ mile from vent area reporting injuries from ballistics. Then on September 15th, mid-afternoon, there is a small collapse of south side of Sherman Crater initiating a lahar which almost reaches Baker Lake. The CVO raises alert-level to Warning/Red at 3:15 p.m. The volcano enters a relatively calm period with no more collapses since September 15th. There is no evidence of recent explosions. However, field crews report increased steaming from the Dorr fumarole field and gas measurements and earthquake activity remain high. Between October 5th and October 8th, Mount Baker takes the full brunt of an atmospheric river dumping more than 8" of rain in upper elevations. Rivers rise, but don't reach flood stage. On October 10th, there is a major collapse of the south-side of Sherman Crater during with lahars flowing into Baker Reservoir below. Several days later, two explosions cause ash plumes 25,000 and 30,000 feet high and on October 17th, at 2:30 a.m. a major collapse of edifice occurs with a tephra-plume 35 minutes later, lasting for 3 hours, up to 50,000 ft and drifts to the east-northeast.

Mt. Rainer

Since 1200 hours on July 15th, there have been earthquakes recorded in the preceding 18 hours; however, the recent quakes were all located within the zone of epicenters during the last 24 hours. The earthquake depths extend from 7km to 1km below surface. Some of the recent events were lower in frequency than previous events and indicate a movement of fluid or gas associated with the magma. GPS field survey data have now been processed and confirms maximum ground inflation in the immediate area of Mt. Rainer matched modeling efforts. Based on past behaviors a new eruption is anticipated to start explosively and may progress within days to weeks, to less explosively that would last for a few weeks to a few months. On Wednesday, July 24th at approximately 1400 hours, a volcanic eruption occurred from Mt. Rainer. Winds are from the north at 15 mph with most of the eruption volume breaking away on the north side of the mountain.

Template Tsunami

CSZ

A CSZ-triggered tsunami occurs at 9:41 am PST February 6. The first wave makes contact with land 10-30 minutes after the shaking. Wave heights range from 12 to 65 feet and continue for up to 12 hours after the initial shaking or aftershock.

Drayton Harbor Fault

A Magnitude M5.9 earthquake occurs on the Drayton Harbor Fault at 19:58 PST, on October 30th, causing a slide collapse of the mouth of the (*River Delta in strait*). The resulting displacement of the water generates a near-shore tsunami, which reflects off the Canadian Gulf Islands and generates a 9 to 14-foot wave crest as it impacts the (*jurisdiction*) coastline from (*location*), down to (*location*). The highest waves are in (*location*) and (*location*) (up to 14 feet). The Tide at (*location*) is 5.4' resulting in an effective wave height of 19.5 feet. In (*location*), the wave height is up to 11 feet, resulting in an effective wave height of 16.5'.

Alaska

A Magnitude M9.2 earthquake occurs off the coast of Alaska at 9:41 a.m., PST, on February 6th. A Pacific wide tsunami threat is issued to all coastal communities by the NTWC. Following the shaking, tsunami waves reaching approximately 20 feet high, first arrive on the Washington coast within 4 hours and continue for 24 hours or more, causing inundation and strong currents along the outer coast. (*locations*) are the major communities impacted along with many other smaller coastal communities. (*locations*) suffers most of the damage, being low in elevation, dense population, and challenges to evacuation. The tsunami waves reach (*locations*) at approximately 14:41 p.m., surging into the whole length of (*road*). The force of the water reaches the roof tops of the homes closest to the ocean and rips homes from their foundations. Water and debris picked up from the first tsunami impacts flow into the city center and into the canal areas near (*locations*), flooding homes across the (*neighborhood*). Although warnings went out hours earlier, the main roads leading out of (*locations*) are clogged with traffic trying to evacuate. In all, 40% of the population are fatalities, 75% of the population needs medical attention of varying severity, and 85% of the buildings in (*locations*) are damaged. (*locations*) also suffers some fatalities and property damage.

Template Explosive Device Terrorist Attack

Christmas

One Saturday the week before Christmas in (*City/Town*) around 16:45 a local business at the intersection of (*Cross streets*) call into the non-emergency number to report that a panel van has pulled to the side of the road and has been sitting there for several hours, its causing a bit of a traffic issue and is blocking the business from view, impacting their walk in customer numbers. At 17:00 the temperature makes a significant drop causing (*Main street name*) to develop black ice for a three mile stretch next to (*geographic marker*). Within minutes calls begin to come in of multiple cars spun out needing support. At 17:15 a hotel located on the South side of (*Main street name*) just past (*cross street name*) experiences a car bomb explodes outside their main lobby. At 17:30 the panel van by (*Cross streets*) explodes. At 18:00 the local hospital reports they have 80 people with severe injuries. Between the two

explosion sites at 15 people have died. the 911 center has received over 100 reports of other panel vans parked around *(City/Town)*.

July- Outdoor festival

Every July the *(festival name)* are held bringing in over 100,000 people to the *(Region/ City)* bringing in approximately \$4 million in revenue to the local economy. During the final *(event)* four explosions occur in rapid succession. Three explosions on the *(location name)* side of the *(river/ street)* and one on the *(location name)* side. All happen near the *(facility/ location)* where thousands of people are watching the final *(event)*. People begin screaming and dozens of bodies are on the ground. People begin running away from the blasts. Some of them are injured. At the time of the incident—on the busiest day of the festival—the festival grounds are occupied by approximately 50,000 festival goers split between both sides of the *(river/ street)*. The dispatch center is flooded with 9-1-1 calls. They dispatch first responders while also receiving information from the Incident Command Post located on the *(description)* side of the festival. First responders begin coming into the area to assist the injured. Approximately 10 minutes after the first explosions two more occur, one on each side of the *(river/ street)*. Advanced Life Support (ALS) and Basic Life Support (BLS) units are enroute, with mutual aid EMS being dispatched. The *(#)* area Level III trauma hospitals and free-standing Emergency Room are given heads up that the injured will be coming. The closest Level 1 trauma center is *(name and city)* about *(#)* miles *(Direction)*. There is *(#)* Level II Trauma Center in *(location)* *(# miles)* and *(#)* in *(location)* *(# miles)*. Emergency rooms staff are concerned about having adequate medical supplies for the expected numbers and types of injuries and begin contacting mutual aid partners in other regions as well as the State Department of Health to request assistance in obtaining additional medical supplies. More people are injured as are some first responders. Within the hour the Washington Fusion Center begins receiving credible information of a domestic terrorist attack.

July – Indoor event

On a sunny July Saturday afternoon at the *(Indoor venue)*, the Disney on Ice show is taking place and has the 10,000-person capacity arena packed. Around 1400 hours as the show is in full swing, attendings near the entrance of the area call into the non-emergency number to report that a panel van has pulled to the side of the road near the entrance and has been sitting there for several hours, causing a bit of a traffic issue in a no parking area. At 14:25, as two law enforcement officers examine the vehicle, running the plates and looking for the owner, there is a massive explosion from the truck severely damaging the front of the building killing the law enforcement officers and anyone near the entrance immediately. Only minutes after the explosion, in the stadium seating, 4 masked individuals wearing clothing with radical political ideologies begin opening fire on crowds with assault rifles until they are overcome by people in the crowd. Inside the area is total panic with people stampeding over others for the exit. After the dust settles, there are reports of approximately 80 people with severe injuries, 20 fatalities, and the attackers are dead.

Summer

Terrorists detonate a 5,000-pound truck bomb in the *(City name)* stadium district during overlapping sports events in the summer. Simultaneously they initiate small arms attacks at 3 downtown hotels and set multiple fires adjacent to those hotels.

Template Terrorist Attack Aircraft as a Weapon

On a Saturday at the start of October, during the *(name)* festival an Airplane taking off from *(name)* airport with 74 people aboard deliberately diverts its path crashing near *(cross streets)*, skidding into the *(name)* community park. Within minutes the plane catches fire, causing 25 cars and three homes to catch fire. Approximately 6 additional homes have major damage from the crash and 5 powerline poles have broken. In total 150 people have been taken to the hospital and 30 have died.

Template Cyber Attack

Ransomware

It is a Tuesday 10:00am in late October. The *(County)* Auditor's office in a matter of 15 min finds that all their files have been encrypted, requiring an encryption key to open them. While the Auditors office team is notifying IT, they learn that everyone who works in the courthouse has been encrypted. The attackers are demanding 2-Bitcoins, approximately \$100,000 USD. Every computer-based function that was connected to a device in the *(building name)* has now been encrypted, including file sharing and e-mail accounts.

Election

On a Tuesday 10:00am in late October. The *(County)* Auditor's office in a matter of 15 min finds that all their files, including backups, have been encrypted, requiring an encryption key to open them. While the Auditors office team is notifying IT, they learn that everyone who uses county IT systems has been encrypted. Every computer-based function that was connected to servers in the county and the state has now been encrypted, including file sharing and e-mail accounts. County IT contacts WATECH at the State of Washington Support Center to inform them of a ransomware attack and find out that the State systems have also been affected by a ransomware attack. The attack came just before the November elections. The attackers are demanding the county pay 150 Bitcoins, valued at approximately \$5.7 million USD. Word of multiple states experiencing similar attacks makes the national news. Social media is full of groups blaming state and local governments for not protecting the voter rolls and allowing this to happen. Accusations of elections tampering and distrust of elections result run through all large social media outlets, talk radio, and ultra-left and right-wing news outlets. Multiple demonstrations occur with one large (100+) demonstration in *(City/town)*. Local Law Enforcement Agencies responds but tensions get out of hand and damage to area businesses in downtown *(City/town)* occur.

Statewide systems

A significant cyber incident occurs, causing harm to critical functions and services across the public and private sectors by impairing the confidentiality, integrity, or availability of electronic information, information systems, services or networks; and/or threaten public safety, undermine public confidence, have a negative effect on the economy, or diminish the security posture.

Hotel/ Resort

It is a Friday evening at approximately 7:00pm May. The (*hotel/resort*) begins experiencing interruptions with service to lodging reservation / processing payments, to the (*hotel/resort*). Within 15min they find that all their files have been encrypted, requiring an encryption key to open them. The attackers are demanding approximately \$100,000 USD. Every computer-based function that was connected to a device in the (*hotel/resort*) has now been encrypted, including any file sharing and e-mail accounts.

Template Terrorism

Core Capabilities: Forensics & Attribution, Intelligence & Info Sharing, Interdiction & Disruption, Screening Search & Detection, Physical Protection Measures.

4th of July

On July 2nd, the (*name*) County Sheriff receives secure communications from the Washington State Fusion Center and Regional Intelligence Group that there is credible information of one or more domestic terrorist groups planning to conduct attacks on large public events to disrupt the events on the 4th of July in several areas around Washington State to spread fear and mistrust of government at community events that present soft target opportunities. The communications were sent to all lead law enforcement officials in Washington. Further reports indicate that smaller jurisdictions with limited capability to respond may be the primary targets since the group(s) would have an increased chance of success. Additional communications with the WSFC determine that the group(s) have tended to favor using vehicles as a weapon in a crowd but have also shown a willingness to use armed confrontation to gain media attention. The RIG is in coordination with WSFC Joint Task Force with the FBI to continue intelligence gathering and conduct information sharing and provide technical assistance to jurisdiction lead law enforcement officials. On July 4th, the (*city/town*) is filling up fast with tourists ready to celebrate the holiday. Thousands of people have gathered all along the shore, setting up camps and shooting off fireworks. This is an (*City/town*) Mayoral election year, and the contest has become very contentious with emotions running high on both sides. Vehicles are driving up and down the beach with flags displaying radical political ideology symbols and camps all along the coastline have banners and signs promoting one or the other candidate. Just as it starts to get dark, a large truck with flags and placards supporting one of the candidates is driving along the beach. Suddenly the vehicle gains speed and turns into the crowded campsites. The vehicle plows into the camps, hitting the campers at approximately 40 mph. After plowing through the crowd, the vehicle skids out through the sand, gains control again and speeds south along the beach to flee. Six people lay dead, 12 others are critically injured and there are hundreds of witnesses.

June

On a Monday morning June 14th at the *(name)* County Sheriff's Office, the *(name)* County Sheriff receives secure communications from the Washington State Fusion Center and Regional Intelligence Group that there is credible information of one or more domestic terrorist groups planning to conduct attacks on *(city/town)* and *(city/town)* municipalities with potential simultaneous attacks at some of the smaller municipal jurisdictions within *(name)* County to spread fear and mistrust of government. The communication was sent to all lead law enforcement officials in Washington. Further reports indicate that smaller jurisdictions with limited capability to respond may be the primary targets since the group(s) would have an increased chance of success. Additional communications with the WSFC determine that the group(s) have tended to favor explosive devices such as car bombs or explosives hidden in common areas but have also shown a willingness to use armed confrontation to gain media attention. The RIG is in coordination with WSFC Joint Task Force with the FBI to continue intelligence gathering and conduct information sharing and provide technical assistance to jurisdiction lead law enforcement officials. On Tuesday at 14:15, dispatch receives a call into the non-emergency number to report that a panel van has pulled to the side of the road on *(street)* near the *(city/town)* City Hall and has been sitting there for several hours, causing a bit of a traffic issue. At 14:25, as two law enforcement officers examine the vehicle, running the plates and looking for the owner, there is a massive explosion in front of the *(city/town)* City Hall severely damaging the front of the building killing everyone inside. Before the warning could reach the officers on *(street)*, as they inspected the vehicle, it suddenly exploded killing the officers and damaging the side of the city hall. Simultaneously, explosions in *(multiple city/towns)* occurred, all at their city halls. News of the blasts spread rapidly and calls all over the county began coming in reporting panel vans.

May

At 11:30am on a Thursday in May, the *(name)* County Sheriff received secure communications from the Washington State Fusion Center and Regional Intelligence Group that there is credible information of one or more domestic terrorist groups planning to conduct attacks on state Dams to disrupt critical infrastructure operations and spread fear and mistrust of government. The communications were sent to all lead law enforcement officials in Washington. Further reports indicate that smaller jurisdictions with limited capability to respond may be the primary targets since the group(s) would have an increased chance of success. Additional communications with the WSFC determine that the group(s) have tended to favor explosive devices. *(name)* County Emergency Management is notified by the Department of Homeland Security that there is verified a bomb threat that has been made to the *(name)* Dam in *(city/town)*. At approximately 14:00pm, as investigations gets underway, a massive explosion occurs destroying the navigation locks at the *(Name)* Dam, causing a failure and 70 to 80 feet of vertical displacement.

July – Extremist Group

The radicalization of Pacific Northwest extremist groups has recently been promoted by other national terrorism movements which have called for violent resistance to destroy human life and disable critical infrastructure. Radicalization starts to build in the Winter of 2018. Over the next six months there is an increase in expression of on-line animosity towards the U.S. Government which calls for action on June 24th. In recent weeks there has been an increase via social media of on-line extremist groups indicating

an intense animosity and a belief of injustice by the U.S. Government. These local online indicators show lone actors, inspired by extremist ideology, have been able to circumvent security measures to take up small arms, make vehicle borne and rudimentary standalone improvised explosive devices (IEDs) with the stated intent to attack the Region. In addition, there are calls for “Leaderless Resistance” making it difficult to locate, mitigate, or prevent their stated intent. Within the Seattle Region, there is increasing concern about a number of these groups starting to influence public opinion, which may lead to violent actions. The on-line information promotes and warns of the need for longer and ongoing acts of violence to achieve superiority over current government authority. On July 3rd, there are several online attacks which are a precursor to the July 4th physical attacks on an iconic building, multiple active shooter events, vehicle borne violence and IEDs, and unattended small items across the *(city/town)* and surrounding areas.

Scenario details on July 4:

Time Stamp: 1400

1. On 4th of July an extremist group holds a rally in downtown *(city/town)* with a dozen people. The rally is contained on the sidewalk in *(neighborhood)*. Reports are received of a small rental truck parked illegally on the street near the *(city/town)* rally; one report identified the truck as appearing to be ‘loaded too heavy’...‘springs have slight curve’...‘very little clearance between axle and rubber bumpers attached to the frame’.
2. Public service offices in *(city/town)* receive telephone calls from a spoofed phone number declaring ‘war’ and threatening violence:
 - a. ‘we also have several (deterrents) in place including car bombs in parking lots and on side streets’. The message stated “we” want to watch as these bombs ‘level everything in (a) 400-yard radius.’
3. Reports received from *(city/town)* regarding food truck incidents. Police report that a food truck located in *(different neighborhood)* has exploded into flames; initial reports indicated two large propane tanks placed between two food trucks exploded injuring at least 40 people. In *(city/town)*, a food truck approached the *(name)* plant at the truck entrance gate and was denied entrance for lack of permit. The security officer at the gate reported two large propane tanks were bolted onto the truck rear which seemed unusual given that other food trucks entering *(name)* plant used only small propane tanks. The truck departed and was noted heading South.

Time Stamp: 1500

4. Supporters have hijacked websites, media forums with hate videos, vitriol, and propaganda statements identifying ‘war’.
5. A two-person team (man and woman) ascends into the *(high up location)* posing as tourists; at the viewing level/viewing promenade, the team opens fire on tourists and rigs the elevator/stairwell with explosives.

Time Stamp: 1515

6. Eight calls are received identifying suspicious parked ‘rideshare’ vehicles near *(bus/train/ferry)* terminals and homeless encampments.
7. Four downtown hotels and retail areas are reporting incidents of shootings. Callers describe situations varying from a single shooter to an apparent team of shooters. Police are attempting to discern the

scope of shootings, locations and types of weapons being used; however, communication is sporadic, chaotic and overwhelming emergency call centers.

Time Stamp: 1600

8. An apparent team of shooters have shot and killed pedestrians before retreating into one of the hotels and taking hostages.

9. Security officers at a (*industrial park*) facility report a F-150 truck crashed through a crowded pedestrian ferry terminal gate, injuring a couple dozen people standing in line. Gunshots and small explosions have occurred.

10. A security check finds an unattended backpack at (*location*); a cursory check of the backpack revealed several clear, sealed plastic bags containing a gray mash-like substance along with several baby-food type jars filled with the mash. One plastic bag was found to be opened and contained a small amount of white powder.

Time Stamp: 1700

11. A crowded Metro bus (*route #*) explodes while heading south on (*road*) in north (*city/town*).

Template Active Threat

Core Capabilities: Interdiction & Disruption; Screening, Search & Detection; Access Control & Identity Verification; Physical Protection Measures

Trial Disruption

On a Monday in mid-December, the Courts begin a murder trial involving the leader of gang accused of murdering two local law enforcement officers following a large drug bust. The gang is also rumored to have conducted business with terrorist organizations holding training camps in Chile and Venezuela. Local intelligence sources indicate that possible third-party organizations may try and disrupt the trial. During the opening day of the trial, the Courthouse access is as normally conducted with some screening at publicly accessed areas but there are other access points for staff, attorneys and judges that only have to show an ID badge for access, no search or screening. The path to the courtrooms from the common areas are open with little restrictions on flow. At approximately 8:45, four people with proper badging are granted access with other screening. They make their way into the courtroom and upon entrance, chain the door shut. They pull automatic weapons from their briefcases and begin shooting the court staff and nearby law enforcement officers. The judge and court reporter are taken hostage and the defendant is set free. The group then departs through the judge's door and into back hallways making their way out an exterior door into a waiting van. The van speeds away. Within moments several law enforcement vehicles arrive to find that the group has fled the area. A search ensues after getting a description of the vehicle.

Active Shooter (*Casino/racetrack*).

A resident of the (*location*) area was recently fired from his place of government employment for making disparaging remarks against the site manager. On a Saturday afternoon, in hopes of winning it

big, gambled his life's savings away at the *(Casino/ racetrack)*. In despair and upset with government and blaming the *(Casino/ racetrack)* for his losses returned later the same evening and began opening fire inside of the packed facility. It is unknown how many employees were either wounded or killed. The suspect is presumed to still be in the facility.

Bomb Threat- Jail

At 11:30am on a Thursday in May, the county emergency management is notified by the Department of Homeland Security that there is verified a bomb threat that has been made to the County Jail, located *(street & city)*. In addition to the daily activities in this area; The Jail that currently has 242 people on the Jail registry and the coffee shop *(near the jail)* currently has two school buses parked in the lot with a group of exchange students getting lunch and eating in *(park or outdoor space near jail)*.

Active Shooter at workplace

An employee was recently fired from the Food Distribution Center for making disparaging remarks against the site manager. On Monday morning at approximately 9:00am, the fired employee returned to the Food Distribution Center and began opening fire inside of the packed facility. It is unknown how many employees were either wounded or killed. The suspect is presumed to still be in the facility.

Train on US Canada Boarder

A train is traveling southbound across the US/Canada border when a speeding eastbound truck rams into the train just north of the border crossing. Almost immediately a screeching noise can be heard coming from the train and several train cars appear to have exited the rail. Within a few hundred feet of the crash, several train cars are noticed swaying and shortly thereafter begin to tip on their side and a grinding, crunching metal on metal sound can be heard in the nearby vicinity. The locomotives come to a stop about one-third of a mile (one-half kilometer) south of the United State/Canada Border. Numerous cars and trucks are awaiting their turn to pass through the Port of Entry into Canada or the United States as the train derails. An audible hissing sound can be heard from one of the tipped tanker cars but dust and debris from the derailment is obscuring a clear view of the site. On the Canadian side of the border, two individuals are scene running north from the semitruck that struck the train.

Bomb Threat - Dam

At 11:30am on a Thursday in May, the county emergency management is notified by the Department of Homeland Security that there is verified a bomb threat that has been made to the *(name)* Dam in *(city/town)*. In addition to the daily activities in this area; The visitor center currently has two school buses parked in the lot with a group of exchange students on a facility tour.

Template Active Shooter

School Day

On a cold January day, four young adults approach the (*name*) High School, the community's largest high school with 3,000 students and staff. They gain access into the building, pull out weapons from under their coats and begin going from room to room randomly shooting teachers and students. Calls are received at the dispatch center reporting the incident with some reporting that the shooters are using assault rifles with large magazines. Staff hear the gun shots and take protective actions as detailed in the classroom emergency procedures for an active shooter. First responders are dispatched for an active shooter incident. An incident command post is established off campus but close enough to observe the school. Additional EMS resources are staged and a Mass Casualty Incident (MCI) is declared. All area hospitals are notified to expect multiple victims and the Disaster Medical Control hospital establishes communications with the on scene medical responders. LLEA resources from multiple jurisdictions begin forming assault teams and enter the building. Tactical EMS resources are formed and escorted into the building. Assault teams report over 250 wounded/injured and 103 dead. Local media begin arriving and broadcasting breaking news over TV and radio as well as via social media. Within 15 minutes, terrified parents begin arriving, some armed, wanting to get their children. Tactical teams locate and engage the shooters who had split up going into different areas of the school. After 45 minutes all shooters had been neutralized.

Rally

On a Friday afternoon in November, four masked males are observed closing and chain locking the exterior doors of a local High School during a football prep rally in the gym. They began walking through the school shooting students, staff, and faculty with what appears to be long guns. Office staff hear the gunshots and see the shooters on the facility video surveillance monitors. They observe that there are four males wearing masks and dressed in bulky clothing. All are heavily armed with assault-type weapons. Office staff notice that two of the shooters appear to have suicide vests around their torsos. The office staff sounds the alarm and warns of an active shooter situation over the school PA per school procedures. Another office staffer calls 9-1-1 and reports the situation. The shooters begin to randomly shoot students and staff in the gym and hallways. Law enforcement officers are the first to arrive, they establish command, assess the situation, and begin forming teams. As they approach the building, an explosion in a nearby vehicle injures two officers and the others return to a covered location. Then a shot rings out and another officer falls to the ground. Officers realize that there is a sniper nearby and move to a covered location. More law enforcement arrives as well as fire and EMS resources begin arriving. On scene law enforcement reports to dispatch that there is a sniper in the vicinity preventing officers from responding and commands that a senior officer establish the ICP and staging area at a location well away from the school grounds. Meanwhile, 9-1-1 calls are flooding into dispatch from school staff and students reporting that there are dozens of dead and wounded inside.

Template Hazardous Materials Release / Radiological

July

During a late July morning, the US Department of Energy's Hanford Site declares a General Emergency for the *(name)* Area due to an explosion and fire in the *(name)* building. The winds are from *(location)* (SSW) at 7 mph. Stability class D. A release occurs. The populations in Sections 1 and 2 of the Emergency Planning Zone occur and the evacuated area is secured by *(organization)* with assistance from local fire districts. A shelter is opened at *(location)*. The State Department of Health begins sending Field Monitoring Teams to determine the edge of the radioactive plume. Federal resources are requested to assist with an ETA of 0800 the next morning. The fire is out at approximately midnight and the release is declared to have ended at the same time. Once federal resources arrive, State Health determines that the Relocation Area is completely contained within *(location)* of the *(location)*. People cannot live, work, or transit through the area until such time as it is determined safe for occupancy in accordance with federal guidelines. Further analysis shows that the Food Control Area includes all *(name)* Counties and portions of *(name)* Counties out to 60 miles. Additionally, analysis shows that some specific agricultural food products such as beef cattle extend out to 100 miles for portions of *(name)* Counties. The Intermediate phase operations continue for 4 months but late phase operations are estimated to take 5+ years. Meantime, the state's agricultural exports are cut off by all foreign trading partners regardless of where in Washington the product came from. Domestic markets for Washington agricultural products drop by 86%. Local tax base is reduced by 40% due to devaluing of homes and closures businesses in the impacted areas putting the county and incorporated cities into a dire financial situation. Unemployment increases to over 20%, bankruptcies rise significantly as do mortgage defaults. The Cities and County are left to contend with critical impacts to short- and long-term housing as well as loss of businesses revenues to support their communities. The Cities of *(name)* are declared insolvent and become unincorporated. Population numbers decline as families move to other parts of the country to find employment and resettle.

July Train

On a hot summer day in late July, a train carrying industrial materials is traveling through *(Location)* Washington. The train is carrying several 17,290-gallon tank cars carrying Anhydrous Ammonia. As the train approaches *(main intersection)*, a large truck carrying a 250-gallon propane tank is traveling south on *(Cross street)*. As the truck nears the train crossing, the driver suffers a fatal heart attack and slumps over the steering wheel. The truck continues forward and the train collides with the truck near the *(location landmark)*. On impact, the propane tank is ruptured and catches fire. Within moments, the tank explodes damaging one of the train cars full of anhydrous ammonia causing it and the other nearby compressed gas tanks to rupture releasing their contents into the air. Nearby buildings and cars on the street are impacted by the explosion. Many people are killed or injured. The winds are from the east-southeast at about 5 mph. Calls begin flooding into the dispatch center reporting the explosion. Calls are received from multiple residences in the vicinity of *(neighborhood)* saying that they heard the explosion and are smelling a very strong ammonia smell. They have sheltered in place. Calls for help continue to flood the dispatch center. Dispatch tones out the fire, EMS, and local law enforcement agency responders and reports an explosion and probable HAZMAT incident with strong Ammonia smell and reports of victims experiencing. Some report the strong smell of ammonia and see people choking and falling.

Harvest

A severe accident at Columbia Generating Station during harvest time (July-September) results in a release of radiological material that has long-term impacts to statewide economy.

Template Wildfire

With tent encampment

In late August, after a prolonged dry spell and weeks of temperatures ranging from 80 to 90 degrees Fahrenheit, a campfire at the end of *(Street names)* gets out of control, spreading into the dense trees surrounding a makeshift camp. The campers flee as the flames quickly grow, becoming out of control and engulfs the end of *(Street names)*. The growing wildfire continues to gain in size and speed, burning through residences off to *(Street names)*. The fire quickly reaches the residences along at *(geographical area)*. Because of the speed of the wildfire, *(geographical area)* residents had little time to evacuate and those trying to escape get caught in a traffic jam trying to leave the neighborhood. The fire rages through *(geographical area)*, destroying approximately 85% of the homes in the area. In all, approximately 250 residences are destroyed, and the fire causes severe injuries and fatalities.

With grassland

In late August, after a prolonged dry spell and weeks of temperatures ranging from 80 to 90 degrees Fahrenheit, a backyard campfire at a residence on *(Street names)* in *(City/town)* gets out of control, spreading into the backyard trees and bushes. The flames quickly grow engulfing 12 homes before crossing *(Street name)*, cutting off all the communities to the west. The growing wildfire continues to gain in size and speed, following *(Street name)* up the valley burning through residences within 500 meters to either side of *(Street name)* and catching the surrounding prairie land on fire. The fire reaches up to *(Street name)*, destroying approximately 85% of the homes in the area. The prairie land fires on the edge of *(City/town)* are hot and fast moving, quickly reaching homes to both the North, out to *(street name)* and to the South to *(street name)*, creating multiple neighborhood fire response zones. In all, approximately 350 residences are destroyed and the fire causes 150 severe injuries and 30 fatalities.

Widespread

A dry lightning storm sweeps across the state from the crest of the Cascades into eastern Washington, in August, after five years of drought, causing wildfires that burn a million and a half acres, destroy several hundred homes and other structures; and severely impact agriculture and livestock operations throughout the impacted areas of the state.

Template Severe Weather

Core Capabilities: Operational Coordination; Situational Assessment

Weather + Fire

In early-September the NWS (*station*) issues a Severe Thunderstorm Warning capable of producing strong sustained winds and lightning. The storm moves through the (*region*) igniting multiple spot fires in (*Counties*). Fires are reported in and around the (*cities/ towns*) areas as well as in portions of unincorporated (*County*). The County producers (*X \$*) with its agricultural economy. Dry fields of hay and corn catch fire and thousands of acres of open range land are burning. Driven by strong winds, the fires run at speeds approaching 20 mph. Strong winds funnel through the area coulees which serve to concentrate and accelerate the fires. Visibility is extremely limited in and around the fires due to smoke. There are calls for the protective measures to be ordered for (*City/towns*). The (*name*) Correction Center is threatened as is the (*agriculture type*) Processor and the adjacent (*Type*) Storage Facility in (*City/town*). The BNSF railroad lines crossing the county have been closed due to intense smoke and extreme heat. Electrical distribution poles feeding the (*Cities/ towns*) are burning and power is lost in the towns. The fires jump across (*Road*) and continues in a southeastern direction towards the (*River/ lake*). The 60,000 cattle at a Feed Lot (*location*) are threatened. The dispatch center is inundated with hundreds of 9-1-1 calls reporting fires throughout the County. Volunteer Fire District calls for mutual aid exceed the availability of resources due to fires in adjacent counties. There was no coordinated plan between fire districts to attack the fires. All Hazard mobilization is requested and approved for individual fire districts. Aviation assets and other mutual aid requests are sent to the area but are not enough to meet all the requests for resources from the impacted counties.

Mid-January + Power outage

In mid-January after intense raining on the (*region/ city*) saturates the ground along (*Road*) west of (*Road*) near (*City/town*), an extreme windstorm occurs with sustained winds at 60 mph and gusts up to 100 mph. A deluge of rain and snow cap melt causes severe river flooding along all (*Road*) and a landslide is triggered covering (*Road*) at (*Landmark*), cutting off the (*Town/ communities*). The high winds associated with the storm causes mass power outages across (*County*) and approximately 85% of the households (*town/ community*). As the winds subside, a cold front moves through the area causing temperatures drop quickly, leaving the residences that don't have power or alternative heating sources, freezing in the cold.

April Wind + Communication interruption

In late-April a fast-moving warm front makes its way through southcentral Washington and northwestern Oregon The National Weather Service (NWS) issues a High Wind Warning for their forecast area which included all of (*County*). Sustained winds of 50-60 mph with gusts up to 80 mph are expected from the southwest. The NWS warned that some areas may experience higher winds based upon the topography of some areas. The dispatch center begins getting 9-1-1 calls shortly after the winds arrive. Multiple areas in the county experienced power outages and landline telephone outages to include the (*City/town*). Cellular service becomes spotty. Many callers report downed trees and telephone poles resulting in downed power lines and damaged buildings and homes. Flying debris

causes concerns for pedestrians and heavily travelled roads. High sail area vehicles begin rolling over. Multiple structures experience roof damage. Dispatch reports outages of the EMCOMM repeater sites. Fire, EMS, and LLEA must switch to using backup communications procedures. Over 150 emergency calls received for injured people, damaged buildings, and flying debris.

Template Severe Storm with Flooding / Landslide

Mid-January

In mid-January after intense snowing in the mountains leaves a big snow cap in the higher elevations, a sudden temperature warming occurs and an atmospheric river (Pineapple Express) pushes the freezing level up to 8000ft plus. A deluge of rain and snow cap melt causes severe river flooding in *(City/town)* and landslides along the *(main road)* cut off communities in *(City/town)*. High winds associated with the storm causes mass power outages across *(County)*.

February

During the first two weeks of February the region experiences very cold temperatures and heavy mountain snow, the ground is frozen in much of the region and soils not frozen become heavily saturated. A warm front moves into the region bringing strong much warmer winds that increase temperatures substantially. The warm front brings more rain to the area causing a rapid melting of the snowpack in the mountain areas. The NWS issues flood warnings for most rivers and streams in the region. The *(name)* River is expected to flood. Flooding is expected throughout the *(regional name)*, threatening all the residences in the *(region/area)*, *(road name)* along the *(location/ road)* all the way out to the *(location/ landmark)*. Additional concerns expressed regarding possible isolation of the *(region/area)* residents due to low adherence to public warning and the reluctance to evacuate. The flooding is expected to impact resupply of critical services as well as damage natural and cultural areas. In addition to the flooding, downed powerlines caused by falling trees litter the region and widespread power outages occur. At *(location/ neighborhood)*, a major landslide occurs due to ground saturation from sustained rains. A major part of the cliffside *(street/ intersection)* gives way burying the houses beneath along *(Street name)*. Several houses along *(street name)* have slid down the hill partway or are precariously perched above the cliff with their foundations showing. In All, 15 houses are almost all the way buried, and 2 houses have dropped down the cliffside and 4 others are in danger of dropping down the cliffside.

February – Coastal W/farms

During the first two weeks of February the region experiences very cold temperatures and heavy mountain snow, the ground is frozen in much of the region and soils not frozen become heavily saturated. A warm front moves into the region bringing strong much warmer winds that increase temperatures substantially. The warm front brings more rain to the area causing a rapid melting of the snowpack in the mountain areas. The NWS issues flood warnings for most rivers and streams in the region. *(River names)* are all expected to flood. The NWS reports that the *(River names)* will cause major near record flooding from *(Town/city)* downstream to *(Town/city)*. Deep and swift flood waters are

expected inundate numerous farms and roads including *(road name)*. High tidal levels at *(Town/city)* will worsen flooding along the lower reaches. Flooding will occur all along the river including headwaters, tributaries, and other streams within and near the *(Name)* River Basin. Additional concerns are expressed regarding possible isolation of the residents in the flood areas due to low adherence to public warning and the reluctance to evacuate. The flooding is expected to impact resupply of critical services as well as threat to livestock on the farms in the area. In addition to the flooding, downed powerlines caused by falling trees litter the region and widespread power outages occur. Because of the increased rainfall, a massive landslide occurs, with part of the hillside between *(Streets/neighborhoods names)*. In all, 45 total homes are damaged from the slide. Along the south side of *(Streets/neighborhoods names)*, 15 home are precariously perched over the ledge, having slide down the hill some, and approximately 30 homes along the north side of *(Streets/neighborhoods names)* are buried up to their rooves.

March

Following an early March intense winter storm on the throughout the region, a sharp spike in warm temperatures following 1-2 feet of snow saturates the ground. A deluge of rain and warm temperatures along with snow melt causes severe run off and river flooding along *(road name)* north of the *(landmark)*. A landslide is triggered near mile marker *(#)* of *(intersection)* cutting off the *(town/community)*. Additional, mudslides and down trees in multiple locations across *(road name)* between *(road names)*. Following warm daytime temperatures, a cold front moves through the area causing temperatures drop quickly, leaving the residences that don't have power or alternative heating sources, freezing in the cold.

Template Space Weather/ Solar Wind/ Geomagnetic Storm

In the last week of August, NOAA's Space Weather Prediction Center issues an alert due to a large coronal mass ejection approaching Earth's magnetic field, with 15 hours' notice of a severe magnetic storm making impact. In the early morning hours of the next day, transmission systems at substations in major metropolitan areas fail due to a surge of solar activity, causing power grids to go down. Subsequent system imbalances and overloads cause numerous transformers and lines to fail or disconnect. Most of the continental United States is affected by the massive power outage, leaving nearly half of the population in the dark. The space weather causes power system voltage irregularities and triggers false alarms on some protection devices. Critical-asset owners and operators are coordinating to temporarily restore power despite the power disruption caused by the magnetic storm. Radiation from the magnetic storm overwhelms satellite capacity and telecommunications networks, compounding the challenges emergency management personnel face in determining critical needs.

Template Transportation Accident

Tour Bus

On September 9 around 5 pm a Japanese tour company bus on a photographic tour of the *(location)*, with 24 Japanese nationals and three *(major city)*-based support staff (1 translator, 1 guide & 1 bus

driver) departs the (*location*) heading back to (*location*) via (*road*). About 2 miles from the ski resort the bus loses control and goes off the side of the road onto a steep mountainside. A passing car stops to call in the incident. They say that there are 5 individuals with minor injuries standing on the road, none who speak English. The bus looks to be 200feet off the road that is going to (*location*) and they can see another 10 people who look to have injuries along the hillside where the bus rolled.

Box Van

On a cool day in late February, a large box van is traveling west bound along Hwy 14 through (*name*) County Washington. As it approaches mile post (#) a few miles (*direction*) of (*location*) a large landslide occurs sending a debris flow of large boulders hurtling toward the highway below. The boulders topple the vehicle causing it to tip over on one side, blocking the highway in both directions. During the collision, a fire is ignited at the same time three 55-gallon drums carried in the back of the vehicle are ruptured. Traffic is stopped in both directions of (*road*) and it's reported to dispatch that a yellow "Class 7 Load" placard is attached to back of the vehicle carrying the 55-gallon drums and that liquid is leaking from the drums. As the fire grows, so does a toxic smoke plume. There is a 25mph easterly wind blowing the toxic plume west towards (*City/town*).

Template Pandemic

Communicable Disease

A new, severe strain of communicable disease kills hundreds and incapacitates approximately 40% of (*name*) County residents. Public venues including schools, bars and restaurants are closed for an extended number of months and approximately 45% of the county's population refuse to adhere to public health recommendations to prevent the spread of the disease. The disease continues to spread at a remarkably high rate, causing supply chain shortages and preventing (*name*) County residents from buying basic necessities like food and essentials. Personal Protection Equipment supplies dry up forcing medical providers to reuse protective equipment or go without further exacerbating disease spread. Hospital surge resulting from the pandemic pushes (*name*) County hospitals to 95% capacity and most family medical centers close along with county government services.

Botulism

During the month of May, local public health receives 42 reported cases of possible botulism poisoning. Approximately 29 deaths occur, mostly in the elderly and those with underlying health conditions. Additionally, the CDC reports a very significant increase in botulism cases nationwide. Local case counts continue with 117 cases in the first week of June with projections looking at higher numbers. Epidemiological activities trace the botulism toxin back to local food processors and Farmers Markets selling table ready produce such as lettuce, fruit, and other raw, fresh vegetables. Law enforcement investigations point to workers of Mexican and South American descent with ties to terrorist organizations operating out of Mexico and two other South American countries. Public concerns on social media and local talk radio begin circulating rumors of unsafe food supply, misinformation on how

the public can protect themselves, and distrust of anyone of Hispanic ancestry. Law enforcement reports seeing an increase in assaults of people of Hispanic background.

New Influenza

In early October, the Centers for Disease Control and Prevention (CDC) reports a new (novel) strain of influenza virus in the National Capital Region. Less than two weeks after the first confirmed case is identified at a local hospital, the illness causes hundreds of fatalities and thousands of people seeking medical attention. As the virus spreads, approximately 30 percent of the population across the United States and other countries becomes severely ill. Conventional flu vaccines are ineffective against the current strain, and the CDC estimates that a new vaccine could be months away from mass production. Because of the pandemic, social distancing is in widespread effect. Utilities, police, fire, government, and other essential services are disrupted due to social distancing and employee absenteeism. Businesses close, resulting in a large-scale loss of services across the county (e.g. banking, food stores, gas stations). There is a shortage of medical supplies, equipment, beds, and healthcare workers as hospitals in the county are quickly overwhelmed, with up to thousands of individuals seeking outpatient medical care and millions more requiring hospitalization. Civil disorder contributes to the high rate of absenteeism and the overcrowding of hospitals and medical centers.

Statewide

A new, severe strain of communicable disease kills hundreds and incapacitates over a million statewide. Public venues including schools are closed for an extended number of months.